

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041715\
 Data File : BF078627.D
 Acq On : 18 Apr 2015 6:38
 Operator : TP/IZ
 Sample : G1891-12
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-69S

Manual Integrations
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Quant Time: Apr 20 12:47:26 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 18 05:24:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	36317	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	152633	20.00	ng	0.00
38) Acenaphthene-d10	10.40	164	81106	20.00	ng	0.00
63) Phenanthrene-d10	12.22	188	169679	20.00	ng	0.00
75) Chrysene-d12	15.47	240	181850	20.00	ng	0.01
86) Perylene-d12	17.15	264	188323	20.00	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	4.90	112	206830	93.90	ng	0.01
7) Phenol-d6	6.28	99	273221	98.98	ng	0.00
23) Nitrobenzene-d5	7.38	82	167066	66.34	ng	0.00
41) 2,4,6-Tribromophenol	11.38	330	80201	119.23	ng	0.00
44) 2-Fluorobiphenyl	9.60	172	344788	60.77	ng	0.00
78) Terphenyl-d14	14.21	244	454614	56.49	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	78134	9.84	ng	98
37) 2-Methylnaphthalene	9.13	142	31581	5.86	ng	# 95
45) 1,1'-Biphenyl	9.71	154	14627	2.20	ng	97
48) Acenaphthylene	10.23	152	29945	3.55	ng	98
49) Dimethylphthalate	10.11	163	13396	2.20	ng	# 98
51) Acenaphthene	10.44	154	90361	19.04	ng	99
54) Dibenzofuran	10.66	168	88419	12.20	ng	95
57) Fluorene	11.07	166	108280	18.43	ng	98
70) Phenanthrene	12.26	178	1173268	119.54	ng	99
71) Anthracene	12.32	178	283591	29.32	ng	99
72) Carbazole	12.53	167	108832	12.01	ng	98
74) Fluoranthene	13.73	202	1336039	129.07	ng	90
77) Pvrene	13.99	202	1130700	99.05	ng	# 91
80) Benzo(a)anthracene	15.46	228	676353m	62.51	ng	
82) Chrysene	15.51	228	501191	49.30	ng	97
85) Indeno(1,2,3-cd)pyrene	18.34	276	370559m	32.12	ng	
87) Benzo(b)fluoranthene	16.73	252	646739m	55.57	ng	
88) Benzo(k)fluoranthene	16.74	252	276781m	26.76	ng	
89) Benzo(a)pvrene	17.10	252	520244	51.22	ng	# 91
90) Dibenzo(a,h)anthracene	18.35	278	74730m	7.35	ng	
91) Benzo(g,h,i)perylene	18.66	276	350194m	34.35	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

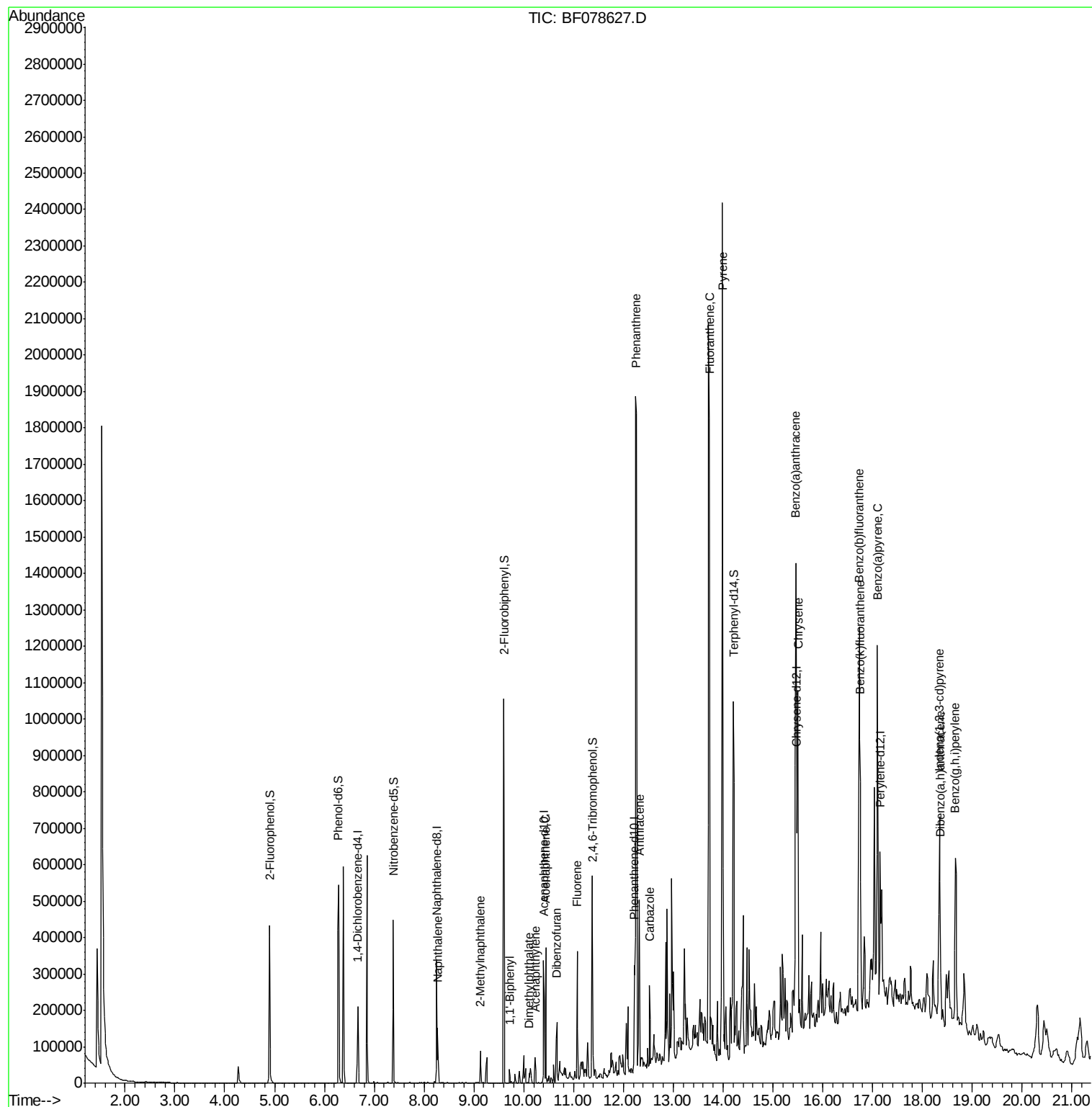
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041715\
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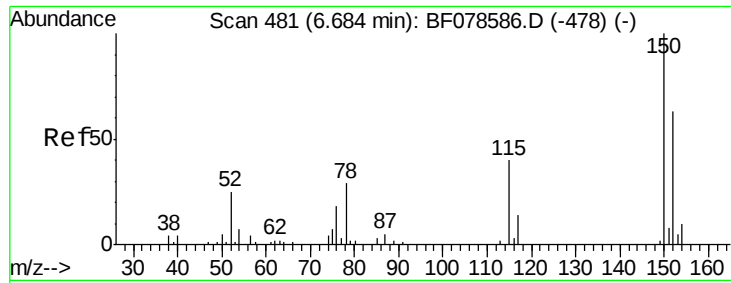
Instrument :
BNA_F
ClientSampleId :
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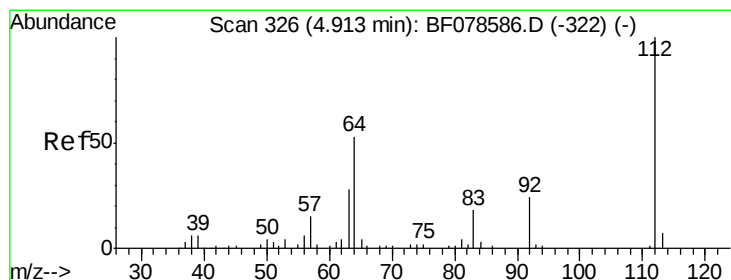
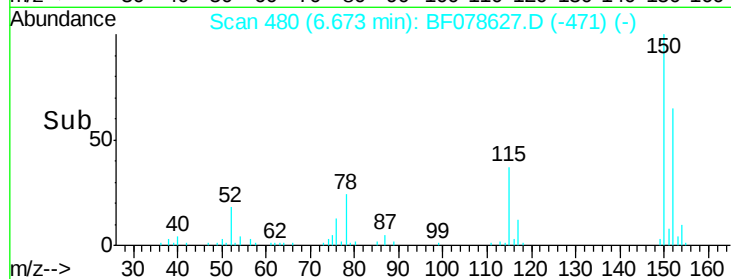
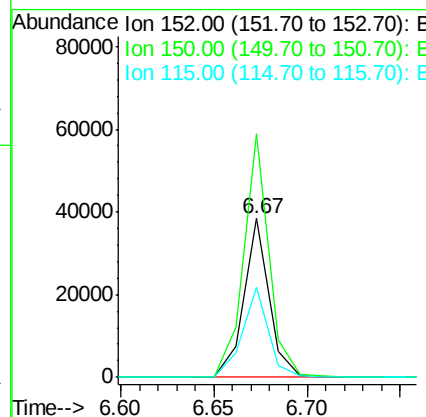
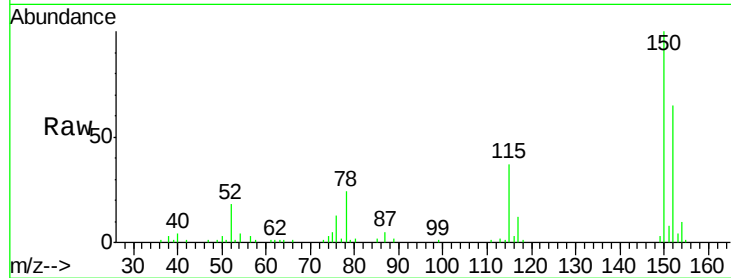
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.67 min Scan# 480
 Delta R.T. -0.00 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-69S

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.6	125.9	188.9
115	56.7	52.7	79.1

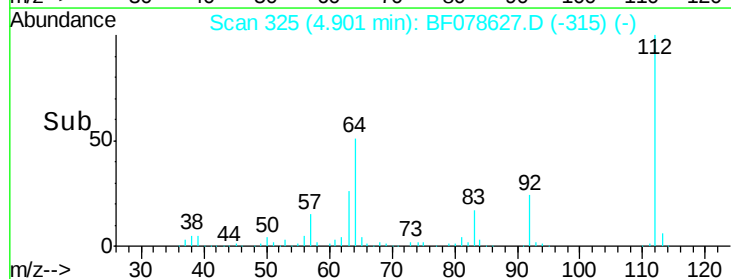
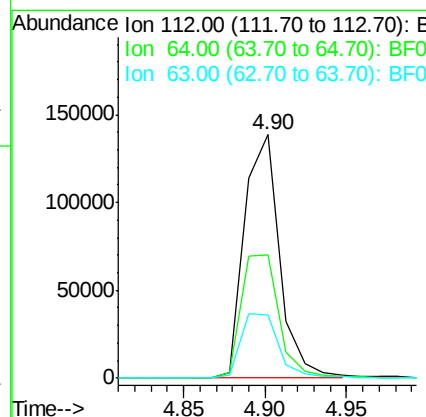
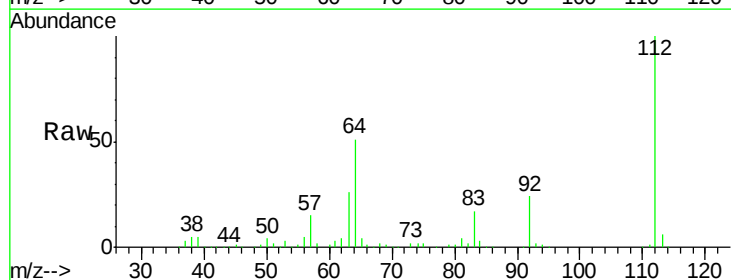
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#5
 2-Fluorophenol
 Concen: 93.90 ng
 RT: 4.90 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.9	39.9	59.9
63	26.1	20.2	30.4





#7

Phenol-d6

Concen: 98.98 ng

RT: 6.28 min Scan# 446

Delta R.T. -0.00 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Instrument :

BNA_F

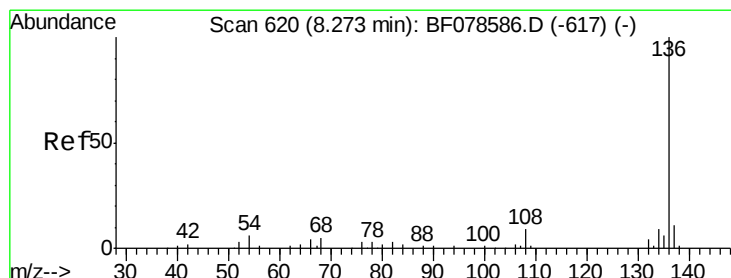
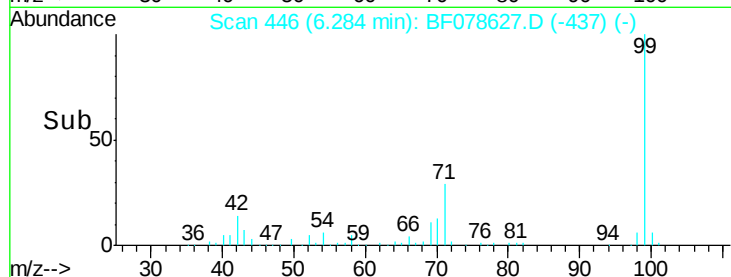
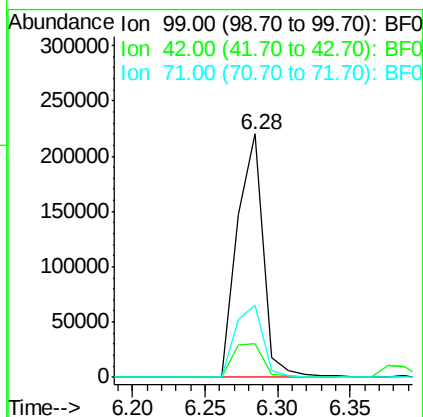
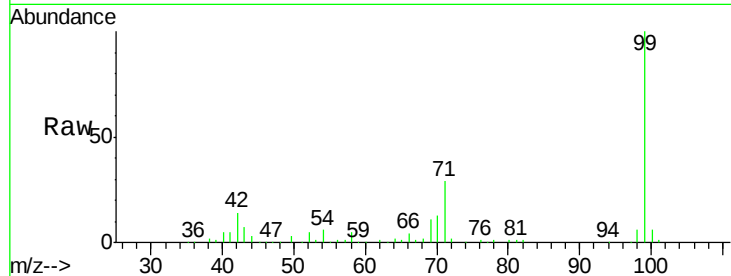
ClientSampleId :

SB-69S

Tot Ion:	99	Resp:	273221
Ion Ratio	Lower	Upper	
99	100		
42	13.9	14.8	22.2#
71	29.5	26.6	39.8

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#21

Naphthalene-d8

Concen: 20.00 ng

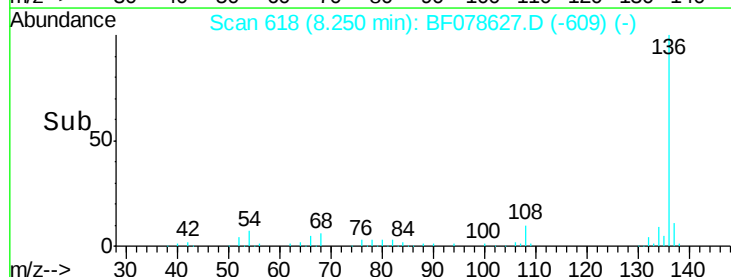
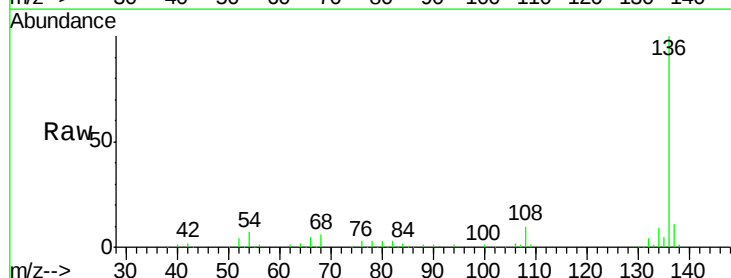
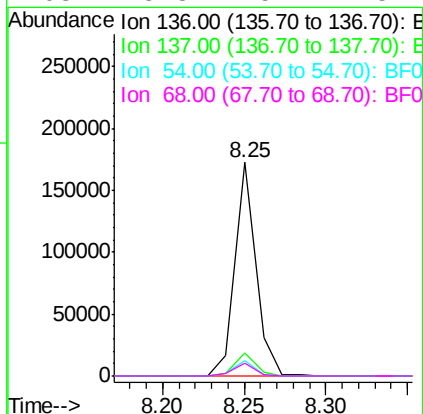
RT: 8.25 min Scan# 618

Delta R.T. -0.00 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Tgt Ion:	136	Resp:	152633
Ion Ratio	Lower	Upper	
136	100		
137	10.9	9.0	13.4
54	7.0	7.0	10.6
68	5.8	5.4	8.2





#23

Nitrobenzene-d5

Concen: 66.34 ng

RT: 7.38 min Scan# 542

Delta R.T. -0.00 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Instrument :

BNA_F

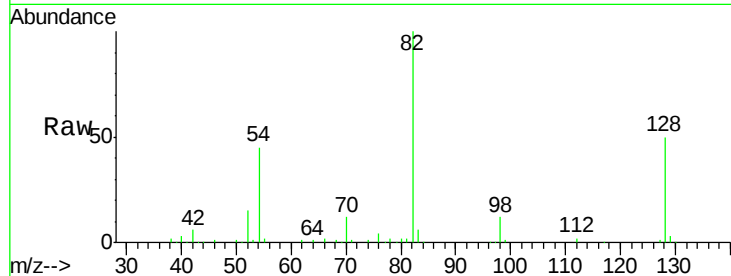
ClientSampled :

SB-69S

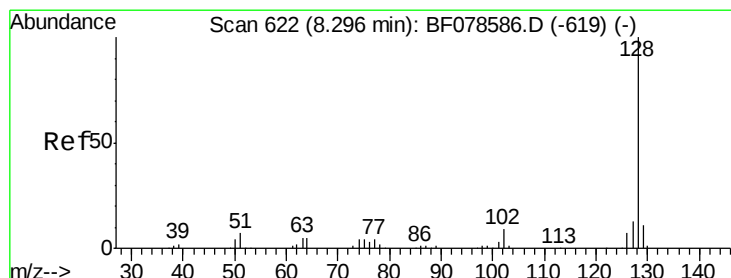
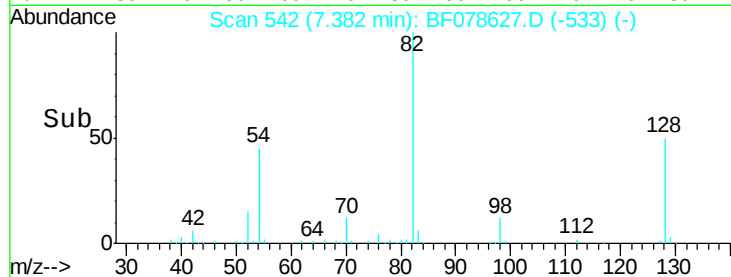
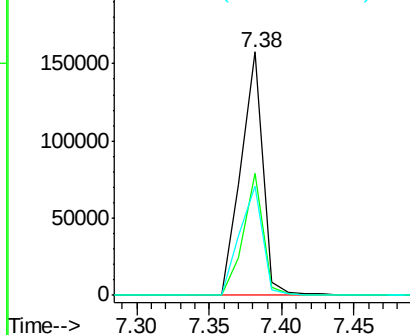
Tot Ion:	82	Resp:	167066
Ion Ratio	Lower	Upper	
82	100		
128	49.9	31.8	47.8#
54	44.8	41.5	62.3

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Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 9.84 ng

RT: 8.27 min Scan# 620

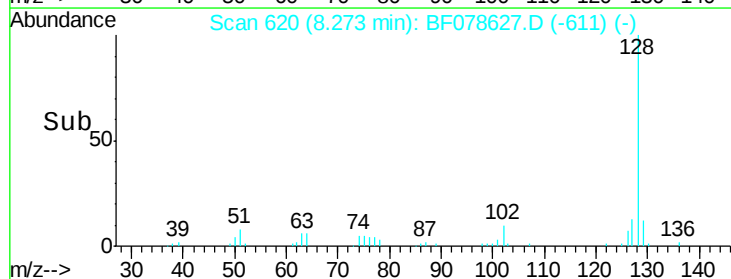
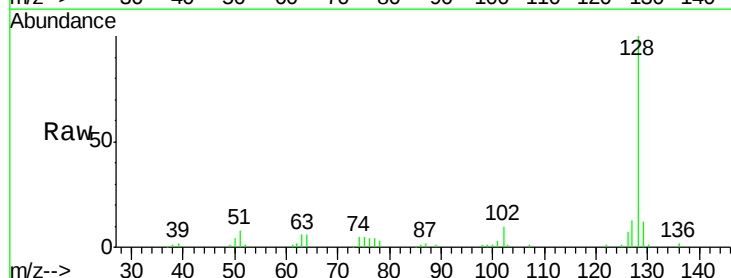
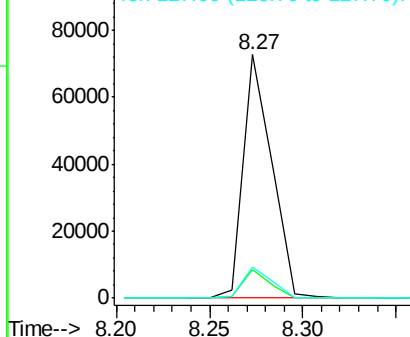
Delta R.T. -0.00 min

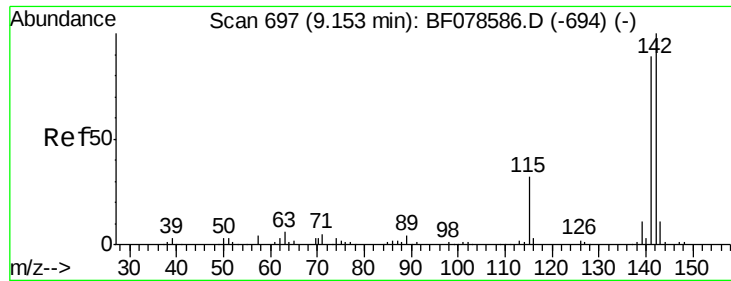
Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Tgt Ion:	128	Resp:	78134
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.6	12.8
127	13.0	10.7	16.1

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





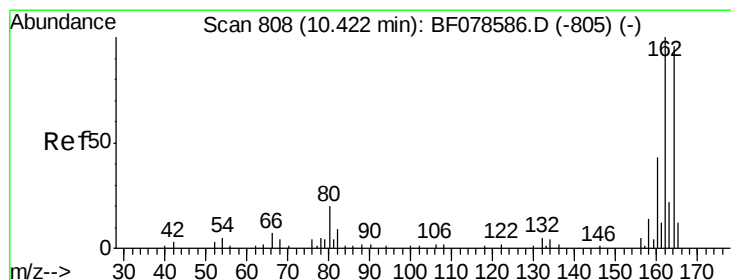
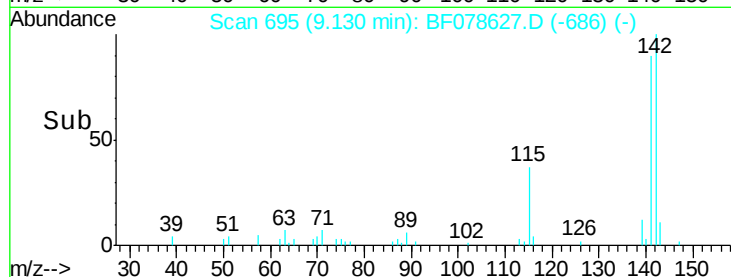
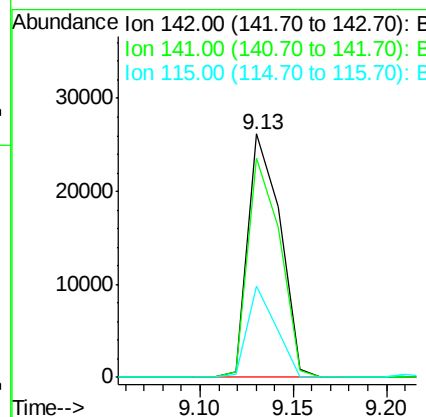
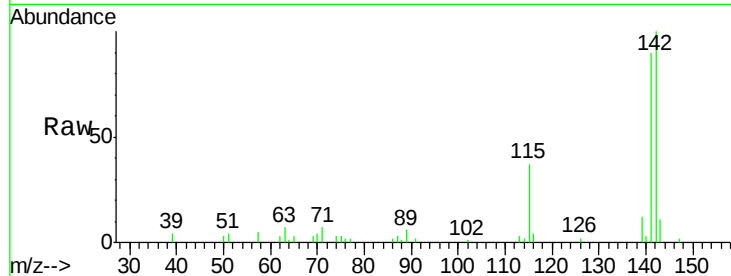
#37
2-Methylnaphthalene
Concen: 5.86 ng
RT: 9.13 min Scan# 695
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampleId :
SB-69S

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.3	105.5
115	37.5	24.6	37.0

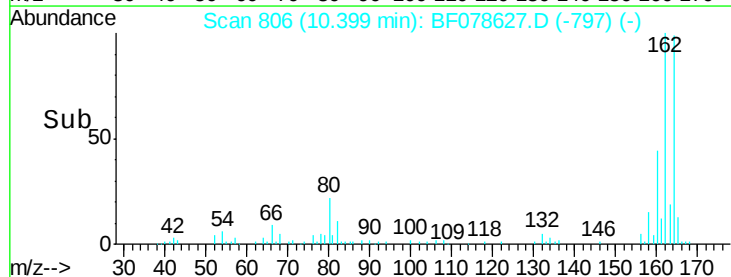
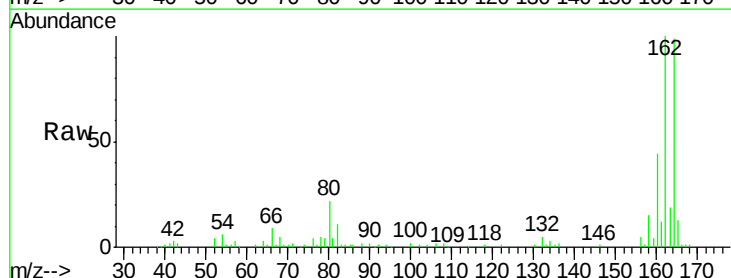
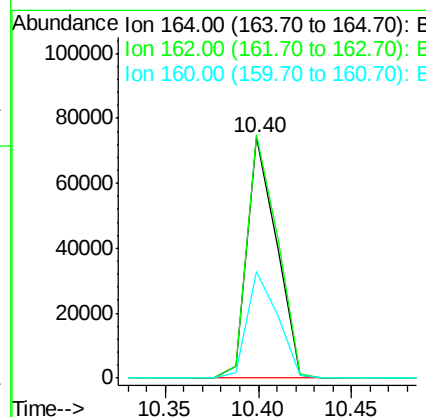
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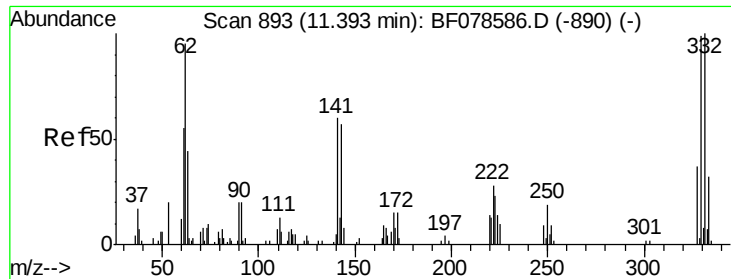
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.40 min Scan# 806
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	44.3	34.7	52.1





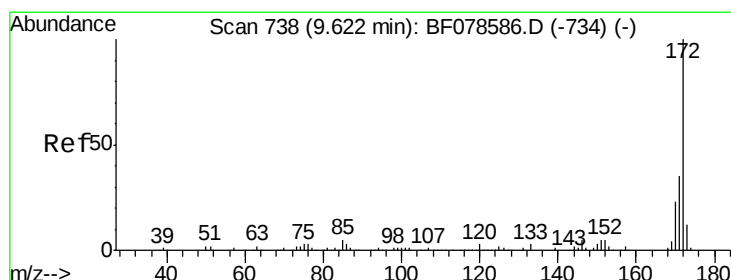
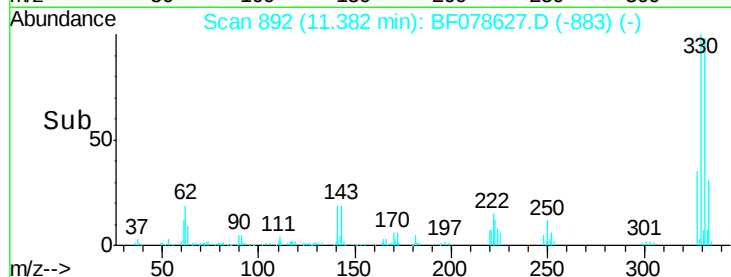
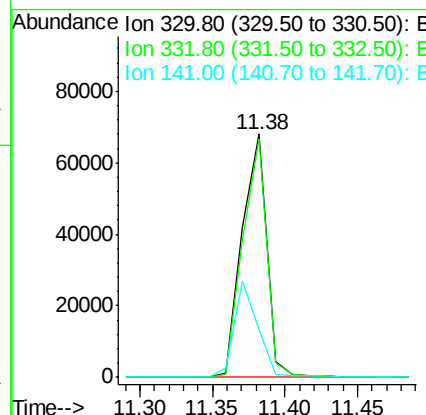
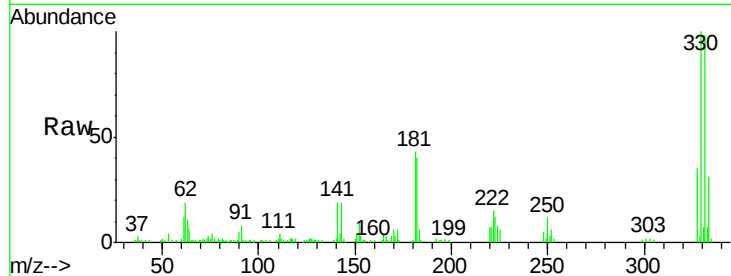
#41
 2,4,6-Tribromophenol
 Concen: 119.23 ng
 RT: 11.38 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Instrument :
 BNA_F
 ClientSampled :
 SB-69S

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	78.6	117.8
141	38.4	31.2	46.8

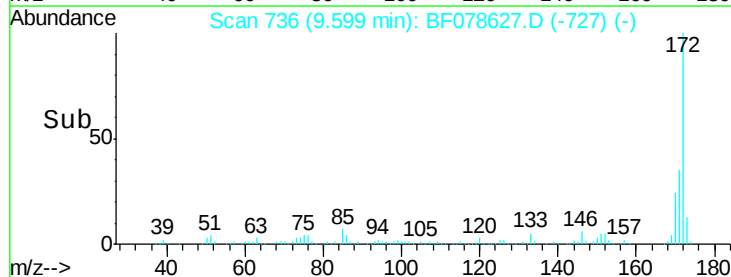
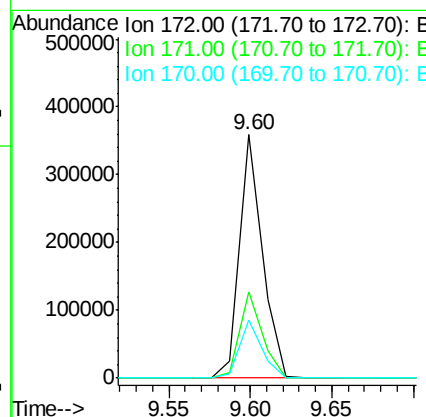
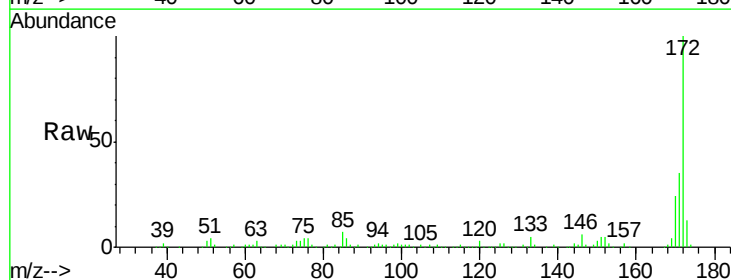
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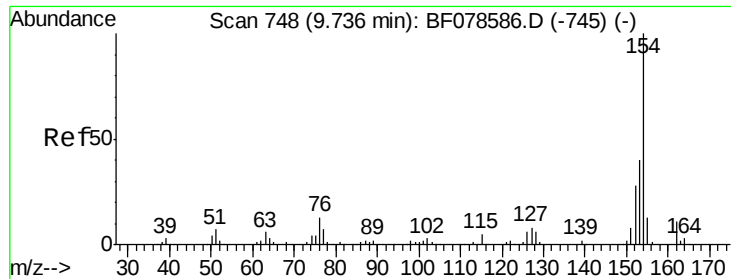
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#44
 2-Fluorobiphenyl
 Concen: 60.77 ng
 RT: 9.60 min Scan# 736
 Delta R.T. -0.00 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	42.8
170	23.7	18.5	27.7





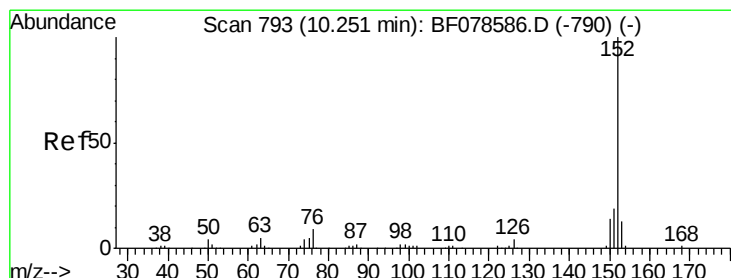
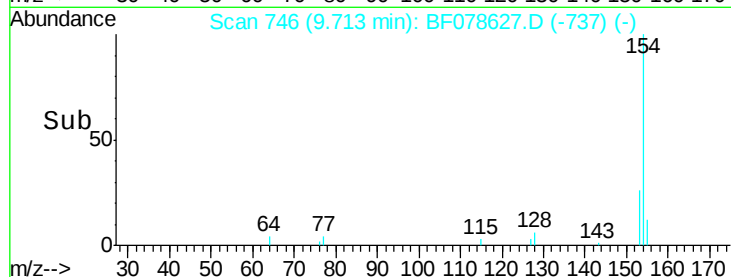
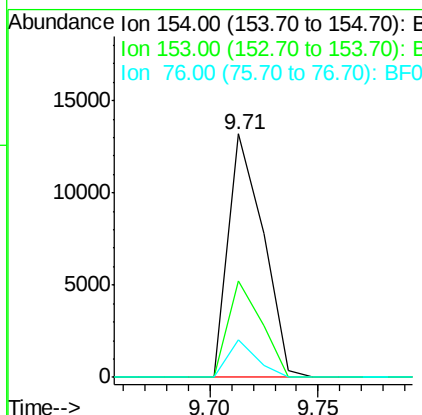
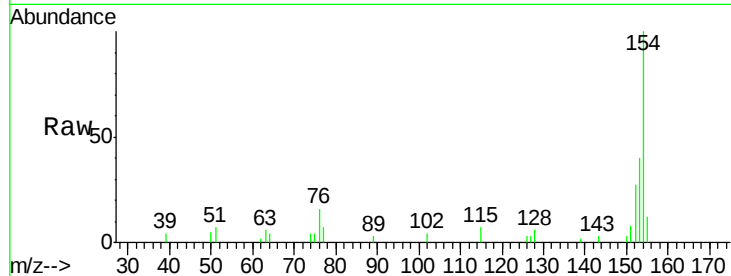
#45
 1,1'-Biphenyl
 Concen: 2.20 ng
 RT: 9.71 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-69S

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	39.8	20.0	60.0	
76	15.5	0.0	30.6	

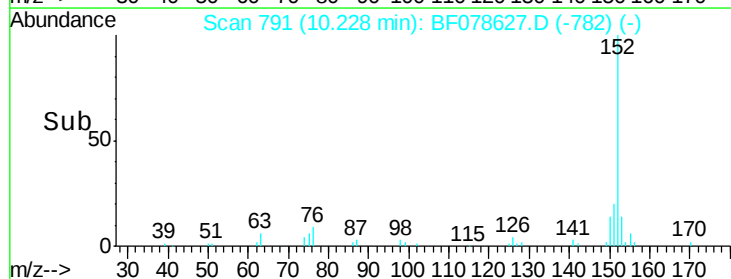
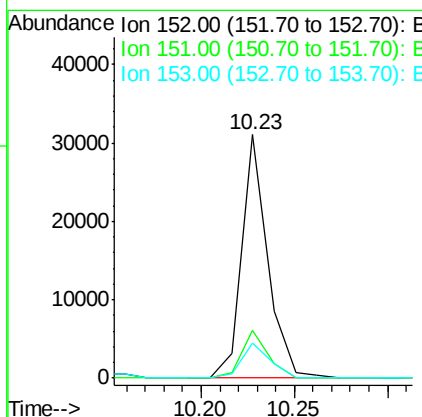
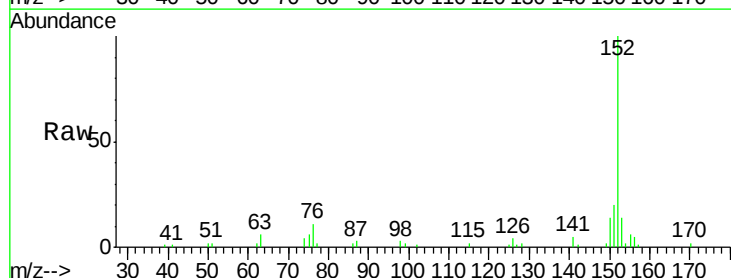
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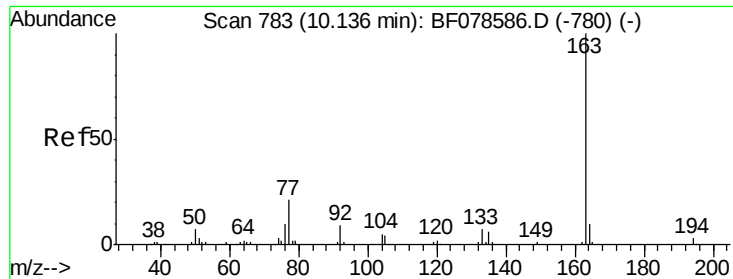
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#48
 Acenaphthylene
 Concen: 3.55 ng
 RT: 10.23 min Scan# 791
 Delta R.T. -0.00 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	19.9	15.7	23.5	
153	14.3	10.2	15.2	





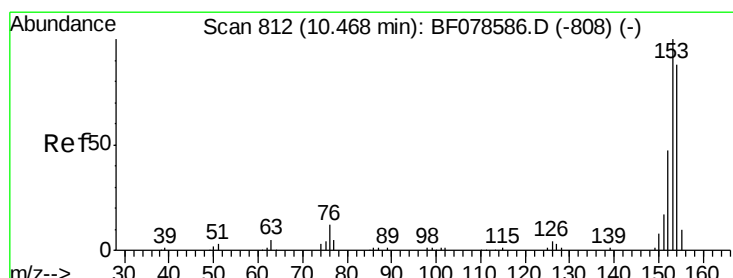
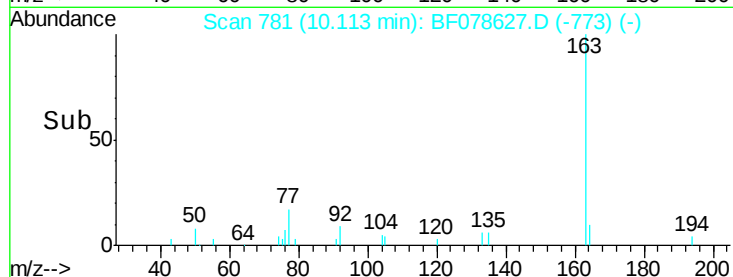
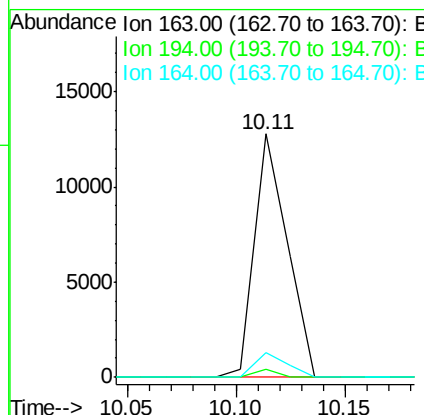
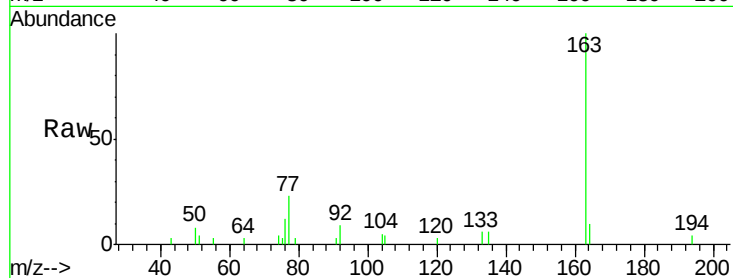
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Dimethylphthalate
Concen: 2.20 ng
RT: 10.11 min Scan# 781
Delta R.T. -0.01 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampleId :
SB-69S

Tot Ion	Ratio	Resp	Lower	Upper
163	100	13396		
194	3.5	2.3	3.5#	
164	10.3	8.6	13.0	

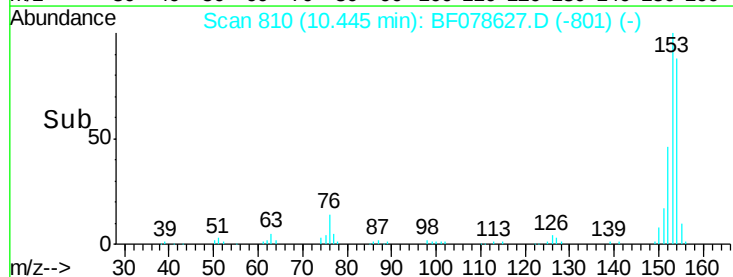
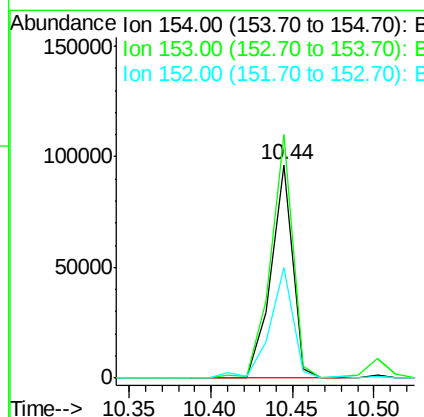
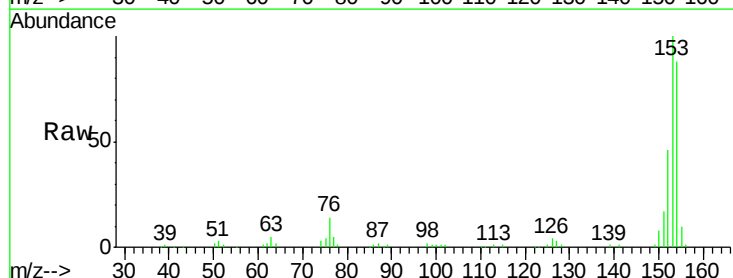
Manual Integrations
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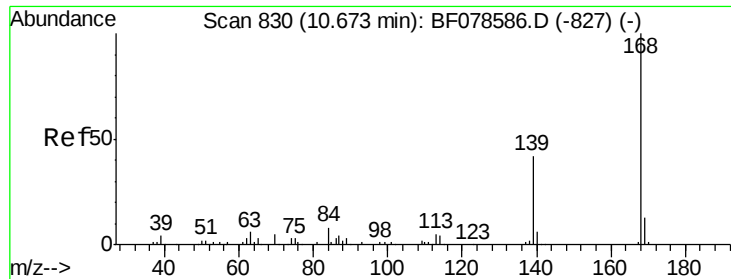
apatel
4/20/2015 3:57:06 PM



#51
Acenaphthene
Concen: 19.04 ng
RT: 10.44 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	90361		
153	114.1	91.4	137.2	
152	52.1	43.0	64.6	





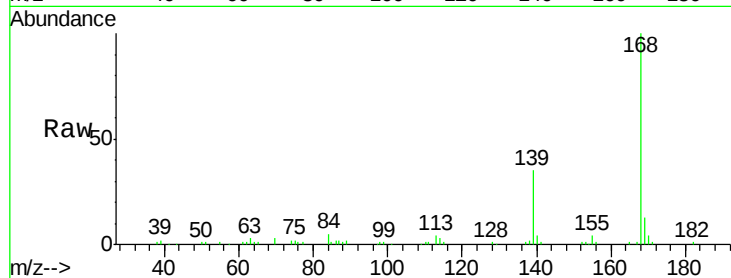
#54
Dibenzenofuran
Concen: 12.20 ng
RT: 10.66 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampled :
SB-69S

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.8	31.0	46.4
169	12.9	10.7	16.1

Manual Integrations
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apatel
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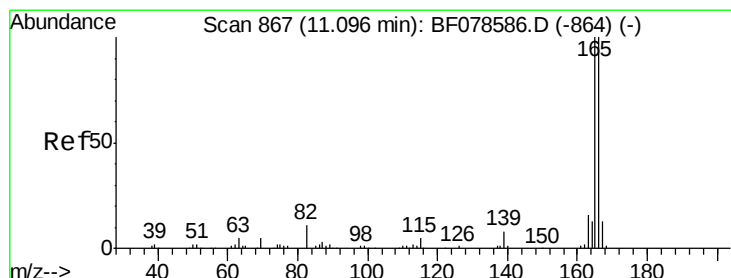
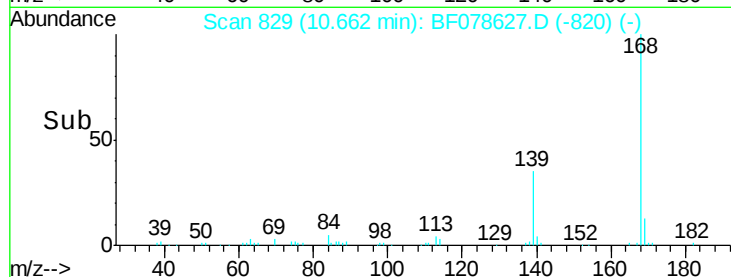
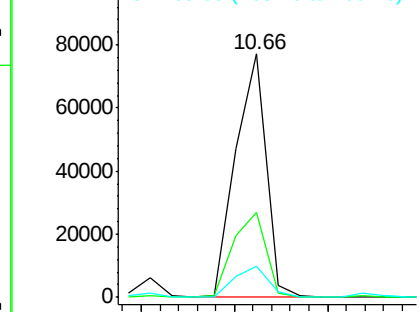


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57
Fluorene
Concen: 18.43 ng
RT: 11.07 min Scan# 865
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

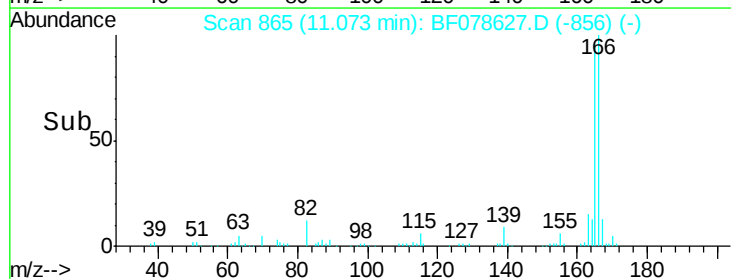
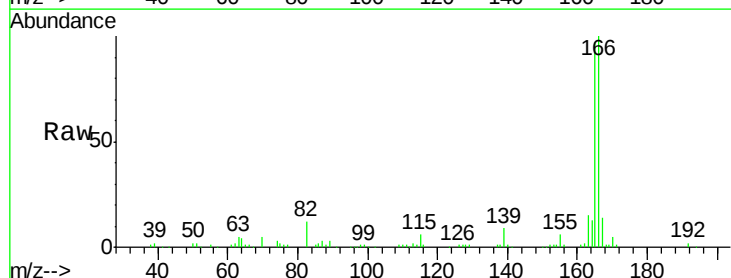
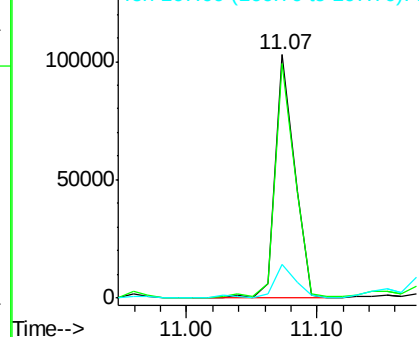
Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.6	78.9	118.3
167	13.7	10.7	16.1

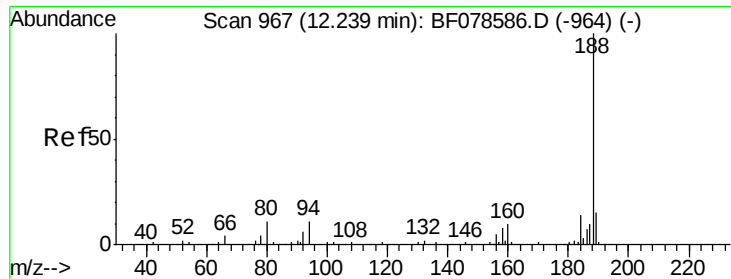
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





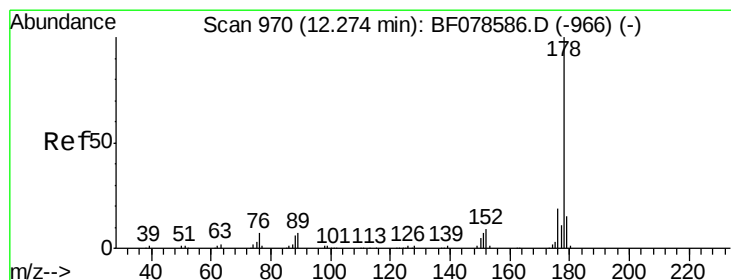
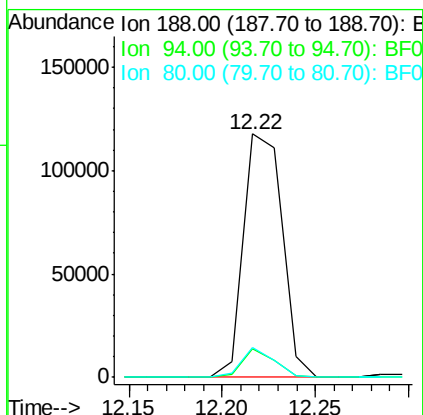
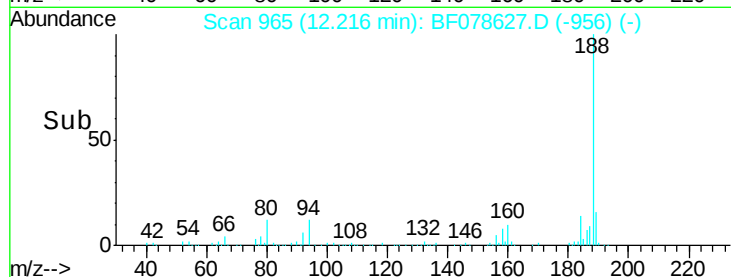
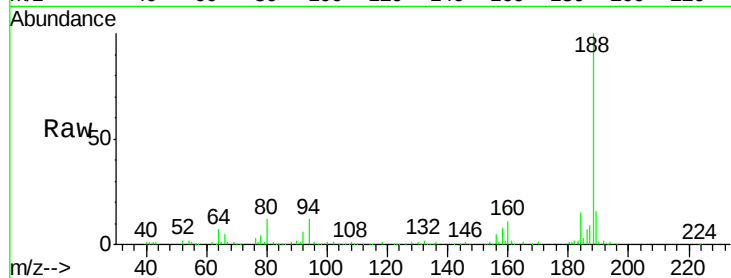
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.22 min Scan# 965
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampleId :
SB-69S

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	11.5	9.0	13.4
80	12.4	9.5	14.3

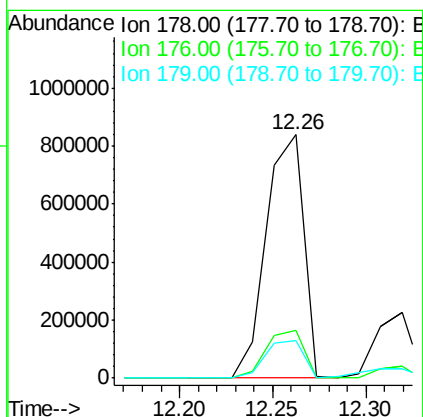
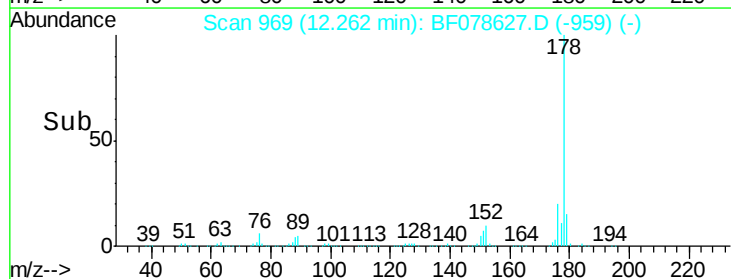
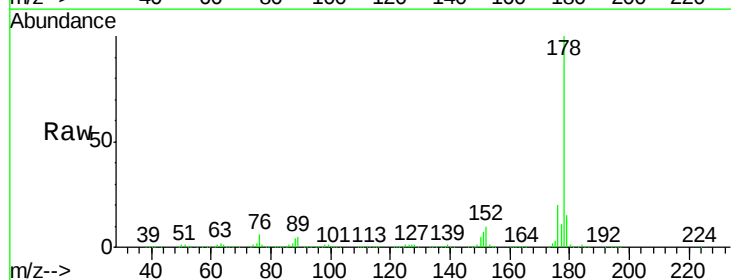
Manual Integrations
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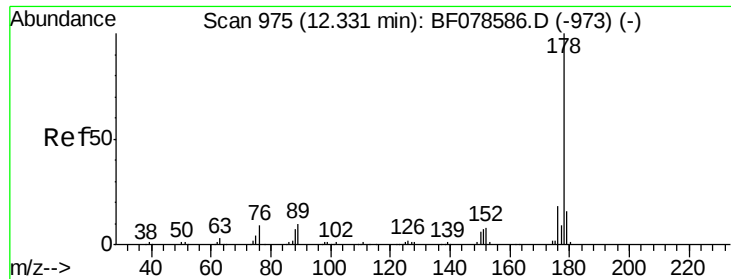
apatel
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#70
Phenanthrene
Concen: 119.54 ng
RT: 12.26 min Scan# 969
Delta R.T. 0.01 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	15.4	23.0
179	15.2	12.2	18.2





#71

Anthracene

Concen: 29.32 ng

RT: 12.32 min Scan# 974

Delta R.T. 0.01 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Instrument :

BNA_F

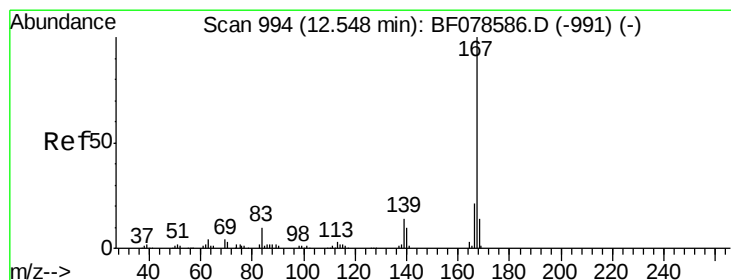
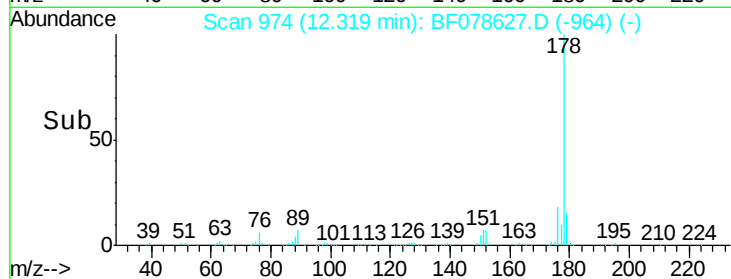
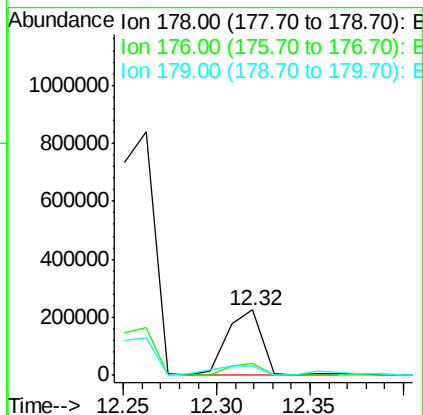
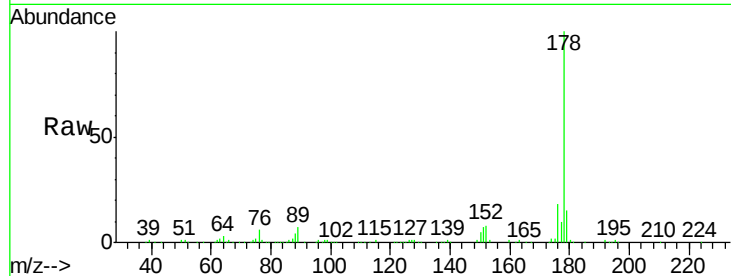
ClientSampled :

SB-69S

Tot Ion:	178	Resp:	283591
Ion Ratio		Lower	Upper
178	100		
176	18.4	14.8	22.2
179	15.0	12.4	18.6

Manual Integrations
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#72

Carbazole

Concen: 12.01 ng

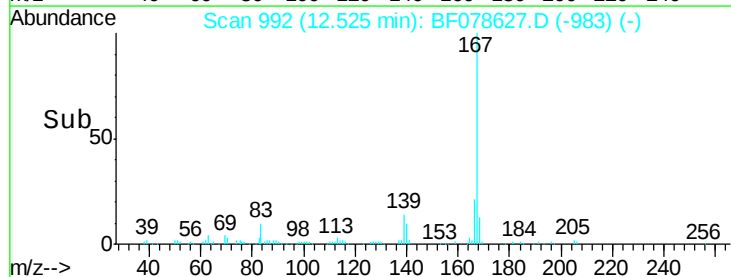
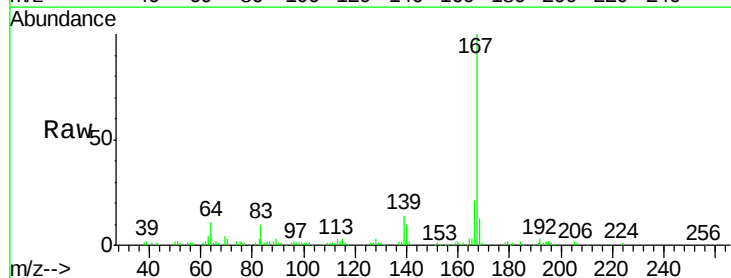
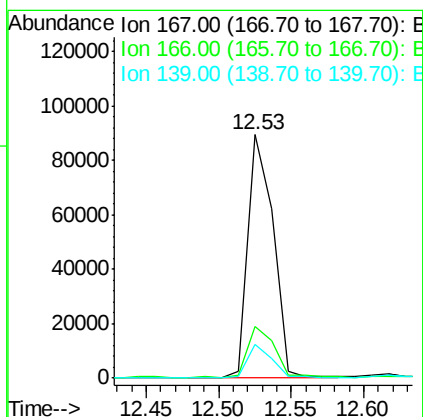
RT: 12.53 min Scan# 992

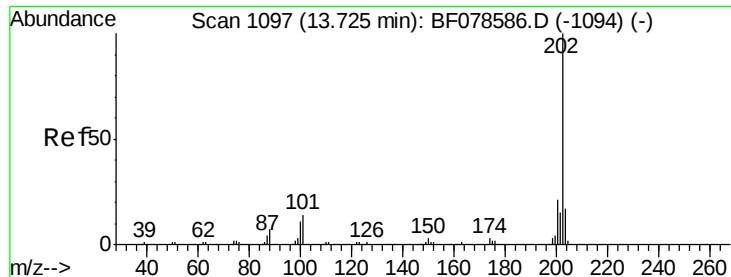
Delta R.T. -0.00 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Tgt Ion:	167	Resp:	108832
Ion Ratio		Lower	Upper
167	100		
166	21.3	16.8	25.2
139	14.0	10.0	15.0





#74

Fluoranthene

Concen: 129.07 ng

RT: 13.73 min Scan# 1097

Delta R.T. 0.02 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Instrument :

BNA_F

ClientSampleId :

SB-69S

Tot Ion:202 Resp: 1336039

Ion Ratio Lower Upper

202 100

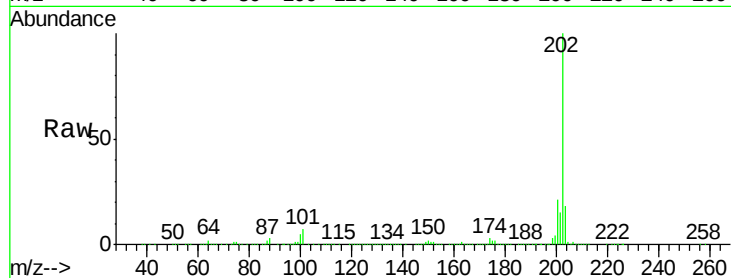
101 6.6 0.0 35.2

203 17.6 0.0 38.5

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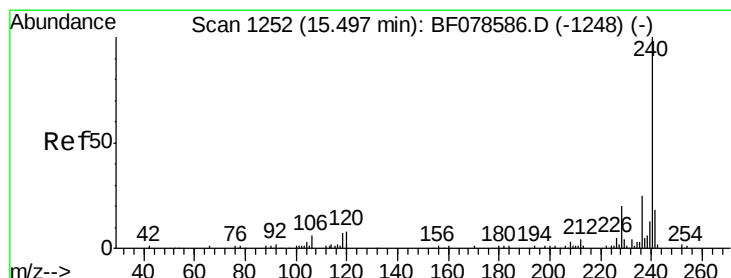
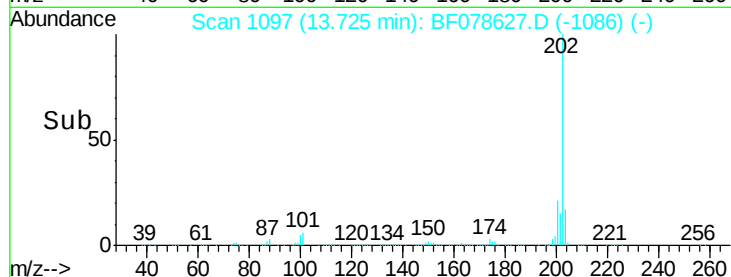
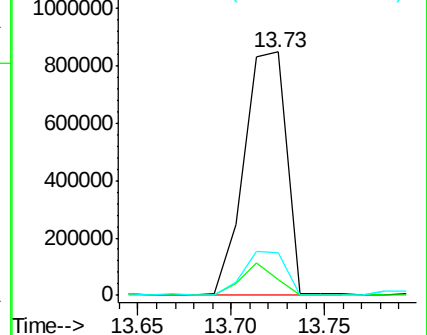
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.47 min Scan# 1250

Delta R.T. 0.01 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

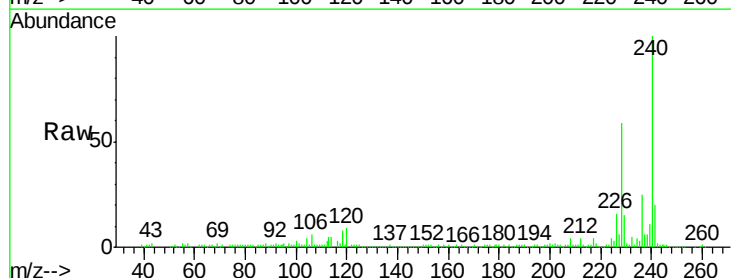
Tgt Ion:240 Resp: 181850

Ion Ratio Lower Upper

240 100

120 9.4 7.1 10.7

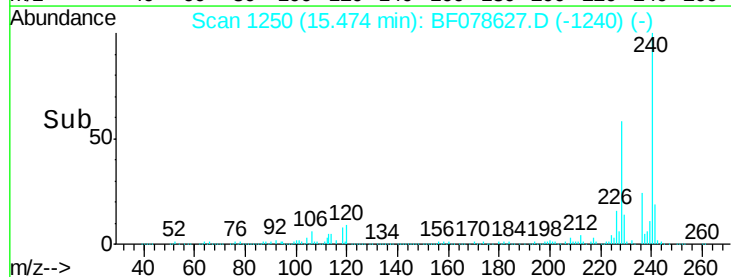
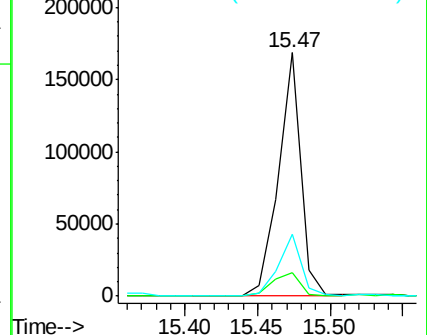
236 25.3 21.4 32.2

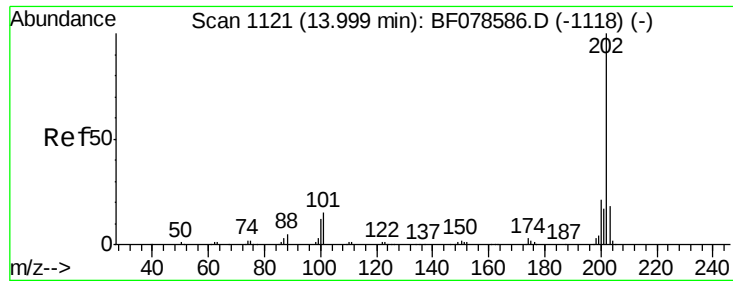


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





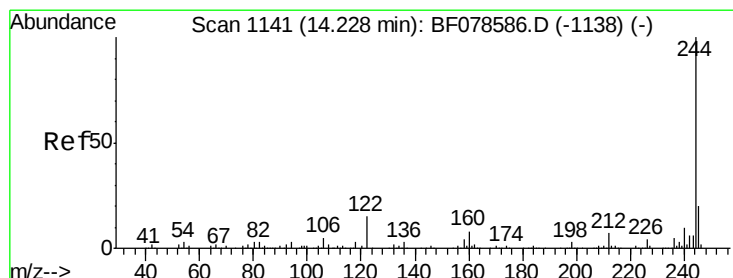
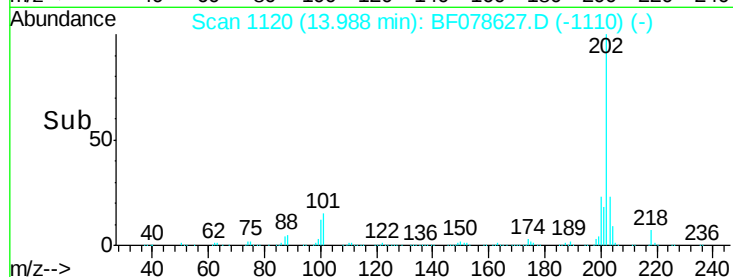
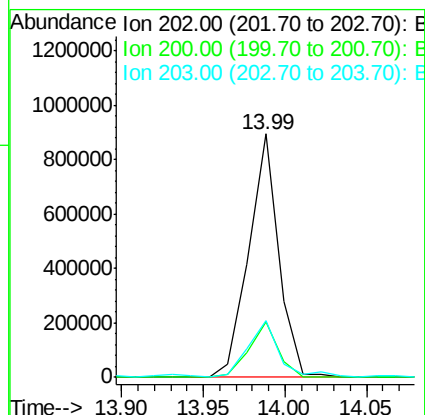
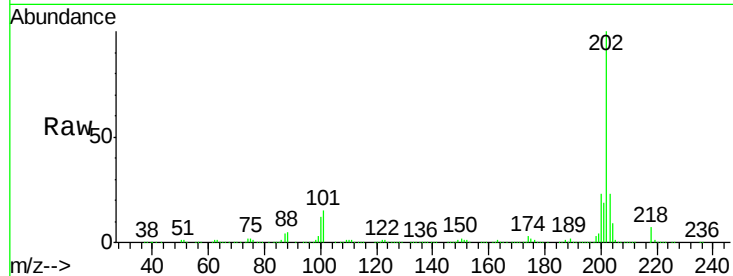
#77
Pvrene
Concen: 99.05 ng
RT: 13.99 min Scan# 1120
Delta R.T. 0.01 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampleId :
SB-69S

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.5	16.3	24.5
203	23.3	13.8	20.6

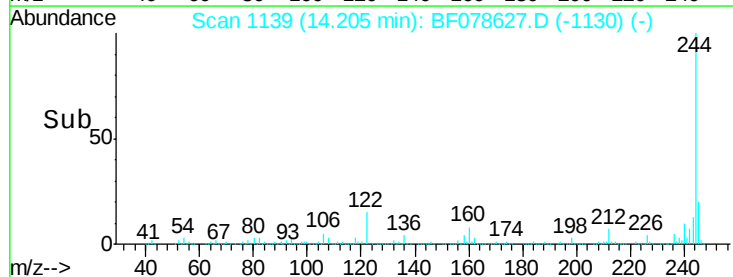
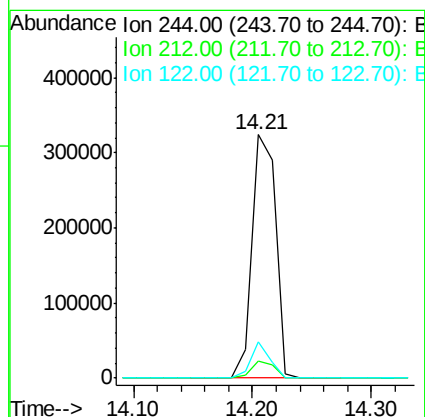
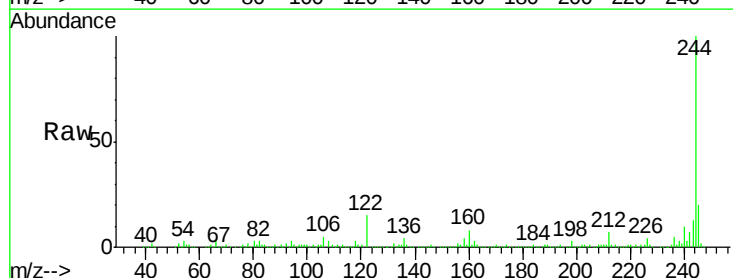
Manual Integrations
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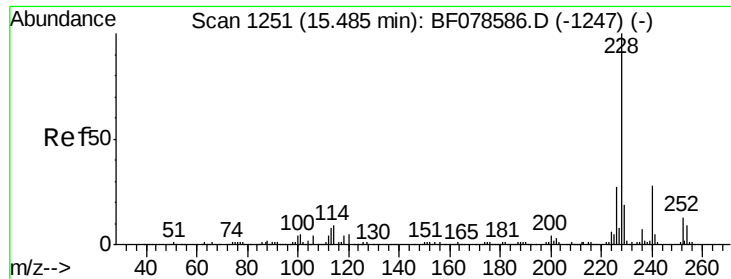
apatel
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#78
Terphenyl-d14
Concen: 56.49 ng
RT: 14.21 min Scan# 1139
Delta R.T. -0.00 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.0	7.4
122	14.9	7.1	10.7





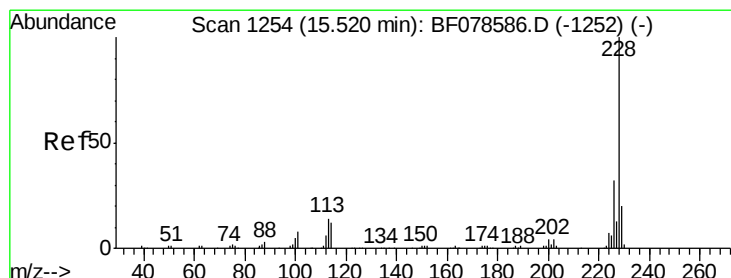
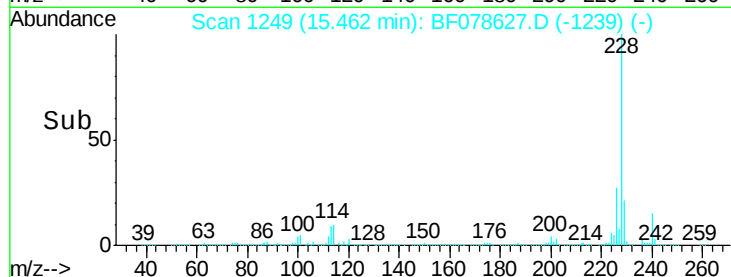
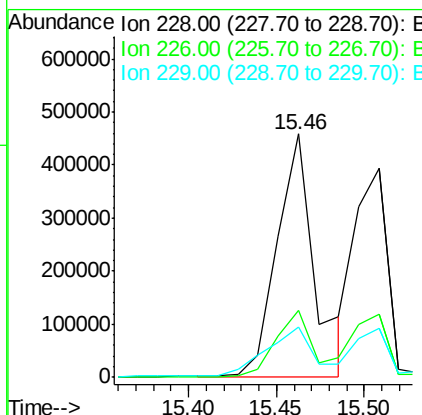
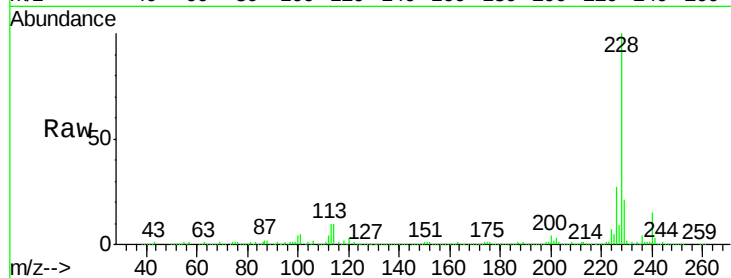
#80
Benzo(a)anthracene
Concen: 62.51 ng
RT: 15.46 min Scan# 1249
Delta R.T. 0.01 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampleId :
SB-69S

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.3	31.9
229	20.8	15.4	23.2

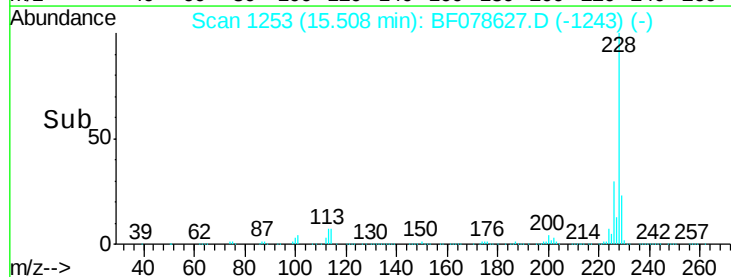
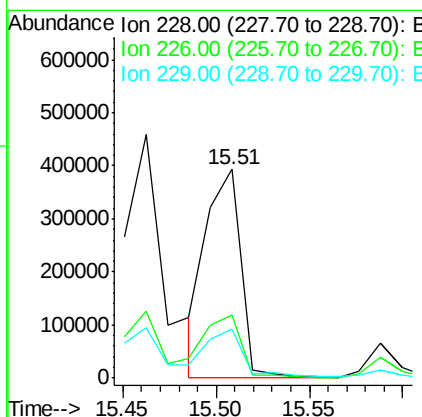
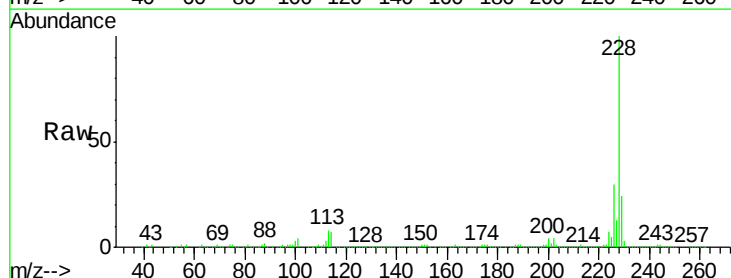
Manual Integrations
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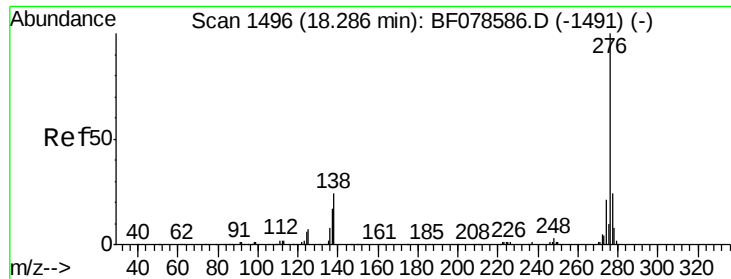
apatel
4/20/2015 3:57:06 PM



#82
Chrysene
Concen: 49.30 ng
RT: 15.51 min Scan# 1253
Delta R.T. 0.01 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.2	36.4
229	23.6	15.8	23.8





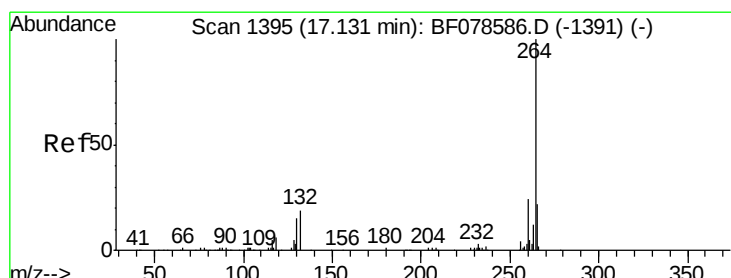
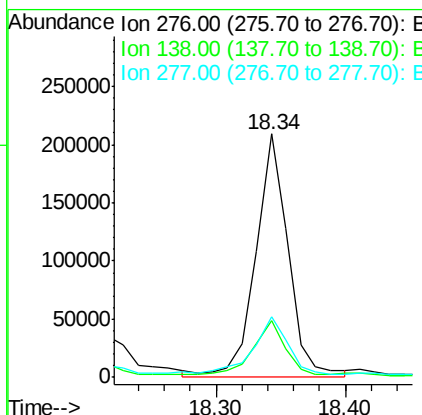
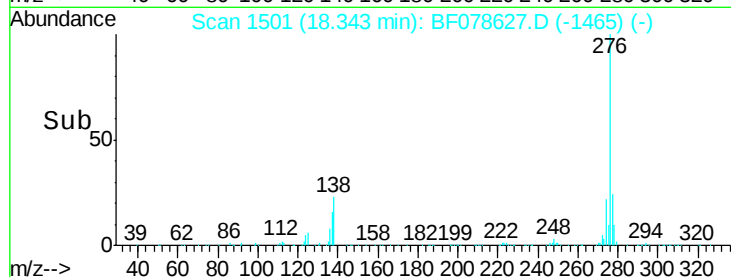
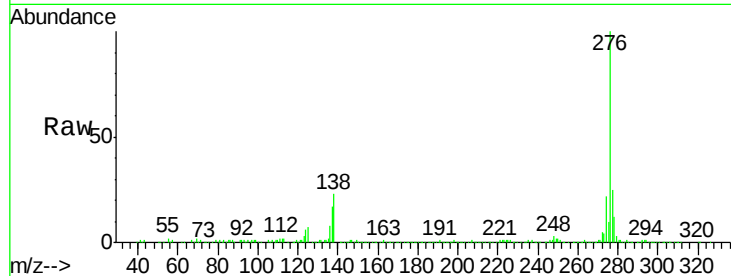
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 32.12 ng/mL
 RT: 18.34 min Scan# 1501
 Delta R.T. 0.11 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Instrument :
 BNA_F
 ClientSampleID :
 SB-69S

Tot Ion	Ratio	Lower	Upper
276	100		
138	4.7	16.9	25.3#
277	4.3	15.8	23.6#

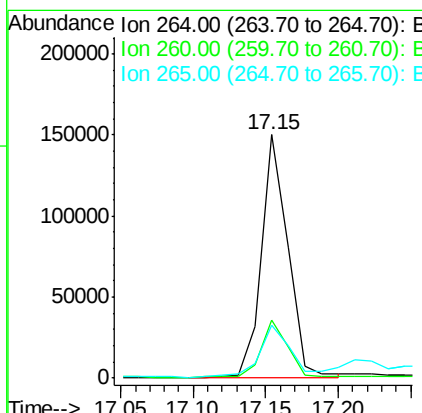
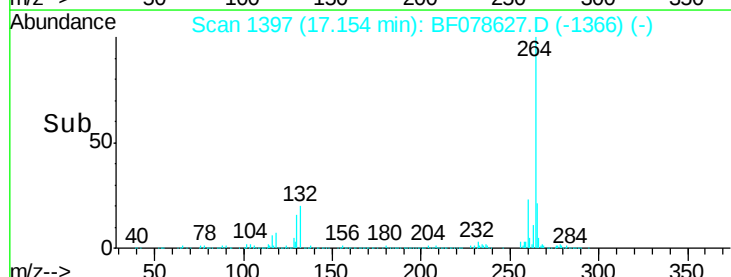
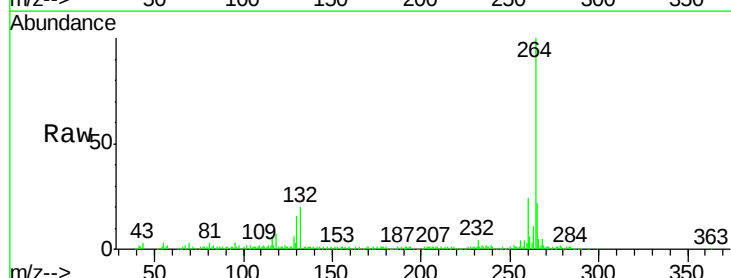
Manual Integrations
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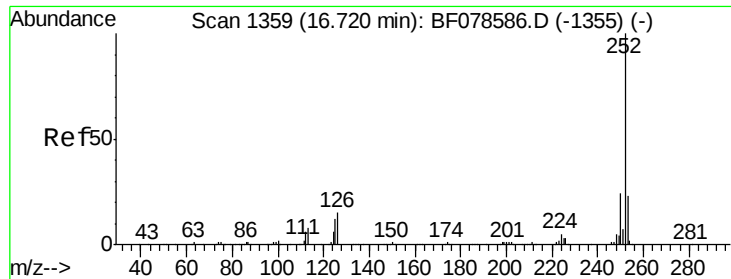
apatel
 4/20/2015 3:57:06 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.15 min Scan# 1397
 Delta R.T. 0.06 min
 Lab File: BF078627.D
 Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.6	27.8
265	22.0	17.0	25.6





#87

Benzo(b)fluoranthene

Concen: 55.57 ng m

RT: 16.73 min Scan# 1360

Delta R.T. 0.05 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Instrument :

BNA_F

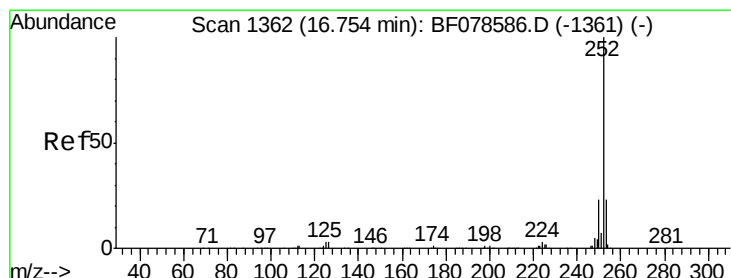
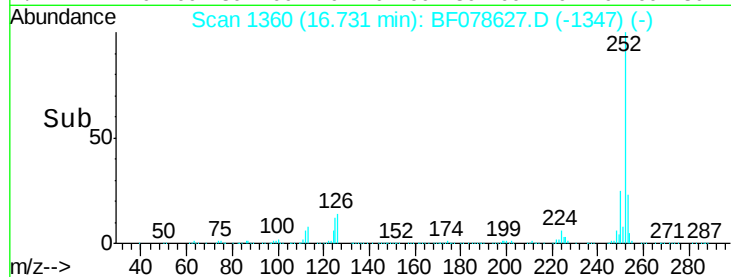
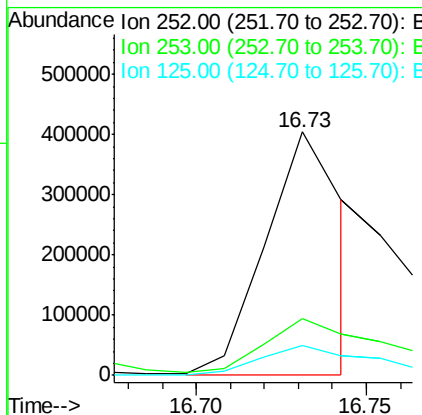
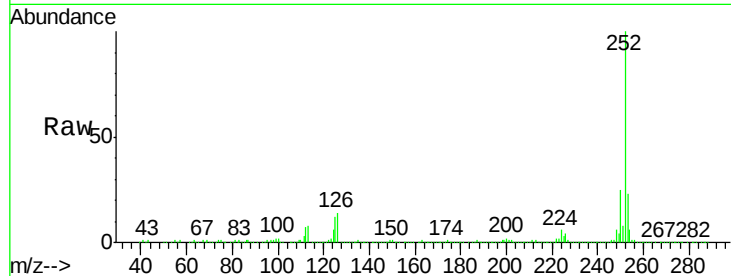
ClientSampled :

SB-69S

Tot Ion:	252	Resp:	646739
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.2	25.8
125	12.5	7.0	10.4#

Manual Integrations
APPROVED

apatel
4/20/2015 3:57:06 PM



#88

Benzo(k)fluoranthene

Concen: 26.76 ng m

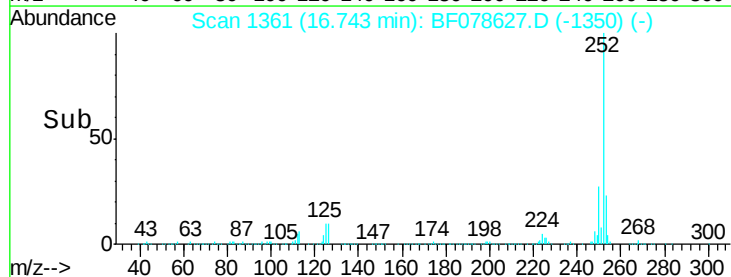
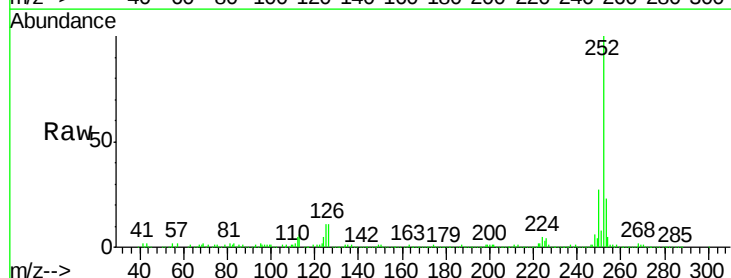
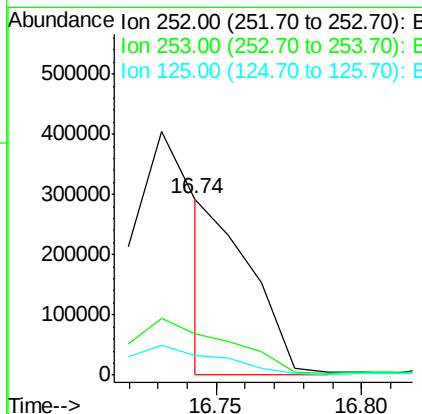
RT: 16.74 min Scan# 1361

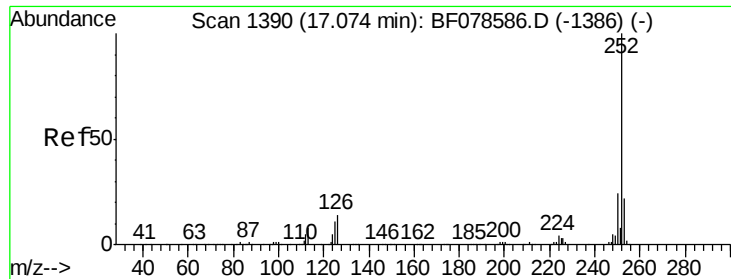
Delta R.T. 0.02 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Tgt Ion:	252	Resp:	276781
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.5	26.3
125	10.8	11.6	17.4#





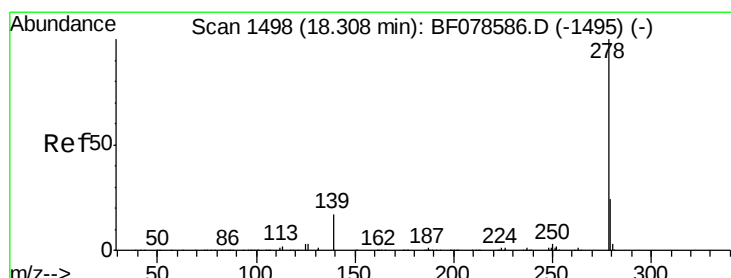
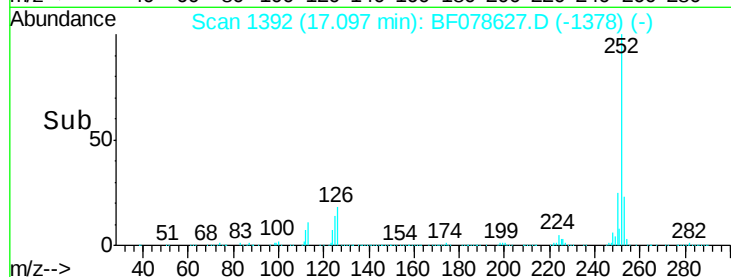
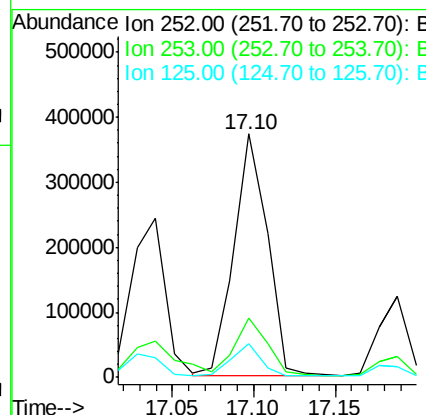
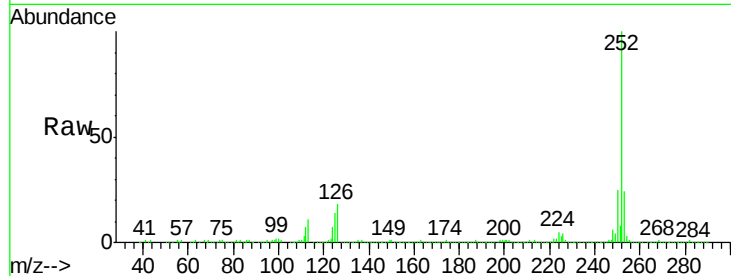
#89
Benzo(a)pyrene
Concen: 51.22 ng
RT: 17.10 min Scan# 1392
Delta R.T. 0.06 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Instrument :
BNA_F
ClientSampled :
SB-69S

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	16.8	25.2
125	13.9	7.4	11.0

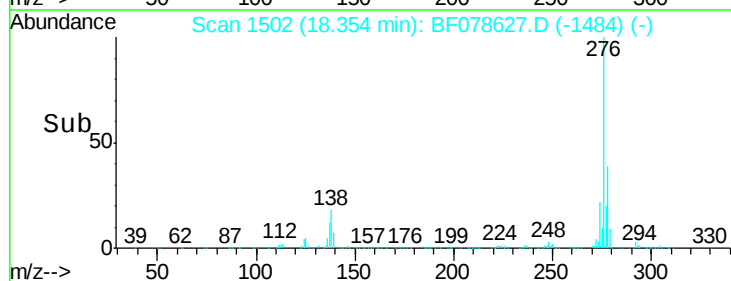
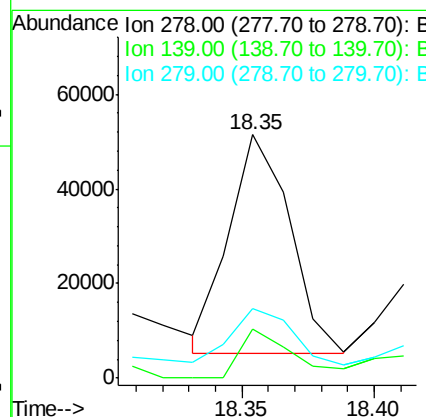
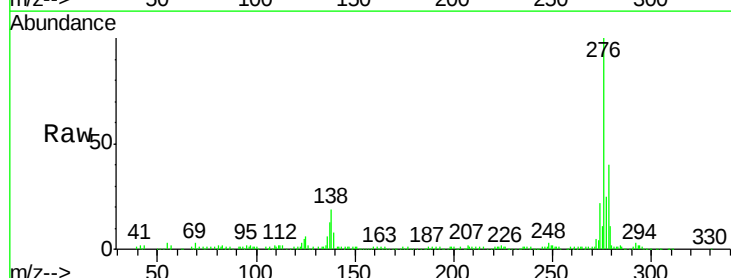
Manual Integrations
APPROVED

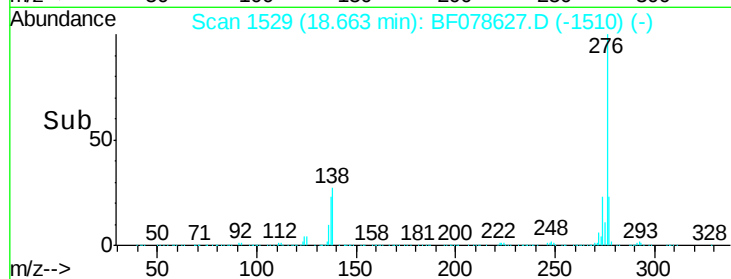
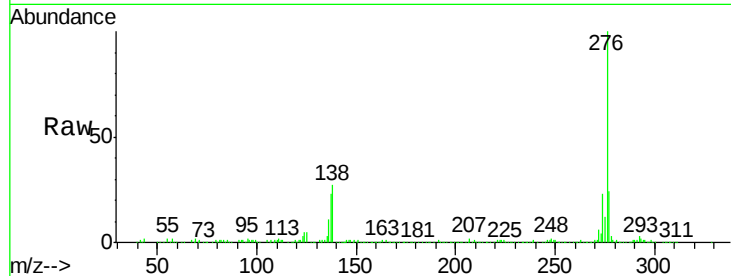
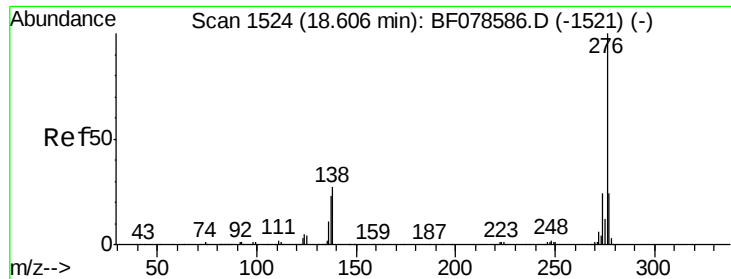
apatel
4/20/2015 3:57:06 PM



#90
Dibenzo(a,h)anthracene
Concen: 7.35 ng m
RT: 18.35 min Scan# 1502
Delta R.T. 0.10 min
Lab File: BF078627.D
Acq: 18 Apr 2015 6:38

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.3	13.6	20.4
279	28.3	19.0	28.6





#91

Benzo(a,h,i)perylene

Concen: 34.35 ng/ml

RT: 18.66 min Scan# 1529

Delta R.T. 0.11 min

Lab File: BF078627.D

Acq: 18 Apr 2015 6:38

Instrument :

BNA_F

ClientSampleId :

SB-69S

Tot Ion:	276	Resp:	350194
Ion Ratio	Lower	Upper	
276	100		
277	24.3	19.0	28.4
138	27.0	19.9	29.9

Manual Integrations
APPROVED

apatel
4/20/2015 3:57:06 PM

